

From: [Jay Field](mailto:Jay.Field@epa.gov)
To: [Eric Blichke/R10/USEPA/US@EPA](mailto:Eric.Blichke@epa.gov)
Cc: [Burt Shephard/R10/USEPA/US@EPA](mailto:Burt.Shephard@epa.gov); [Chip Humphrey/R10/USEPA/US@EPA](mailto:Chip.Humphrey@epa.gov); [Joe Goulet/R10/USEPA/US@EPA](mailto:Joe.Goulet@epa.gov); rgensemer@parametrix.com; [Robert Neely](mailto:Robert.Neely@epa.gov)
Subject: Re: Bioassay Interpretation at Portland Harbor
Date: 06/08/2009 12:34 PM

Eric,
please ignore the following statement in my previous email: "one sample with maximum tox level classification of 2 is affected (ie, samples that classify as level 2 for the endpoint but are not statistically significant and no other endpoint would classify >= 2)."
there are more than one of those samples (all classified by either ch10s or ch10b) If you like I will provide a list of the stations affected and the tox results.
Jay

Jay Field wrote:

> Eric,
> attached is a file including control-adjusted values, significance,
> and tox level classification for the samples. As I mentioned
> previously, I did not take statistical significance into account. one
> sample with maximum tox level classification of 2 is affected (ie,
> samples that classify as level 2 for the endpoint but are not
> statistically significant and no other endpoint would classify >= 2).
> there are a number of such samples for tox level = 1. If those
> samples are an issue, we should ask LWG for a determination of
> statistical power (for Round 2, LWG classified samples as not
> significant, significant, or indeterminate).
> Jay

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> Blichke.Eric@epamail.epa.gov wrote:
>> I agree. The message I left with John this morning was to figure out
>> what information we should exchange (us to them, them to us) to
>> facilitate this discussion. Can you could start to pull together a
>> similar package for the LWG?

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>> Thanks, Eric

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>> Blichke.Eric@epamail.epa.gov wrote:

>> At the AOPC meeting, it became apparent that our interpretation of
>> the sediment bioassay results did not match the LWG's
>> interpretation. I am interested in understanding the basis for
>> this discrepancy. Based on my review of the data, the bioassay
>> results match up with the bins that we established in Table RE-2
>> in our March 31, 2009 direction to LWG (see previous email). Last
>> week, I put in a call to John Toll to try to understand the LWG's
>> interpretation. Although I did not speak directly with John, he
>> left me a voice mail that described 3 possibilities for the
>> discrepancy:

>>
>> 1) The raw response rates differ slightly - e.g., 15% vs. 17%.
>> John does not know why this is the case.
>> 2) Significance Testing. The LWG used the biostats software. He
>> indicated that this is a complicated procedure but that the LWG
>> followed the decision tree associated with the software package
>> and did not make any choices that were inconsistent with the
>> decision tree.
>> 3) The calculation of the level of the hit (e.g., low, moderate
>> or severe toxicity) based on a comparison to the reference
>> envelope was based on an added 10% to the reference envelop
>> opposed to multiplying by the reference envelope value by 1.1 or
>> 1.2.

>>
>> I would like to set up a time to discuss this sometime this week.
>> Please let me know when you might be available. I will work with
>> John to hopefully have some information that we can use to focus
>> the discussion.

>> Thanks, Eric,
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